

WHAT IS CLAIMED IS:

1 1. An information handling system comprising:
 2 a housing having a fan opening;
 3 plural processing components disposed in the housing and operable to process
 4 information;
 5 a fan coupled to the housing at the fan opening and operable to flow cooling
 6 air across the processing components;
 7 an airflow shroud disposed in the housing and having an air channel extending
 8 from the fan opening to one or more selected processing components
 9 and an opening proximate the selected processing components, the
 10 airflow shroud operable to direct cooling air to flow across the selected
 11 processing components; and
 12 a fan coupled to the airflow shroud at the opening proximate the selected
 13 processing components, the fan aligned to flow cooling air at the
 14 selected processing components.

1 2. The information handling system of Claim 1 further comprising a
 2 finger guard coupled to the airflow shroud at the airflow shroud opening.

1 3. The information handling system of Claim 1 wherein the fan coupled
 2 to the airflow shroud aligns to flow air substantially perpendicular to the selected
 3 processing components to provide impingement cooling.

1 4. The information handling system of Claim 3 wherein the selected
 2 components comprise memory.

1 5. The information handling system of Claim 3 wherein the selected
 2 components comprise a CPU.

1 6. The information handling system of Claim 1 further comprising a
 2 hinge rotationally coupling the airflow shroud to the housing, the airflow shroud

3 rotating to a substantially perpendicular position that exposes the selected processing
4 components.

1 7. The information handling system of Claim 1 further comprising a fan
2 mount proximate the airflow shroud fan opening and operable to releasably couple the
3 fan to the airflow shroud.

1 8. The information handling system of Claim 7 wherein the fan mount
2 comprises a pair of parallel rails on opposing sides of the airflow shroud fan opening,
3 the rails extending from the airflow shroud and operable to engage the fan by sliding
4 the fan between the rails.

1 9. The information handling system of Claim 8 further comprising:
2 a fan electrical connector extending from the fan and operable to accept power
3 to operate the fan; and
4 an airflow shroud electrical connector operable to provide power to the fan,
5 the airflow shroud electrical connector aligned to couple with the fan
6 electrical connector upon sliding of the fan between the rails.

1 10. A method for cooling an information handling system component, the
2 method comprising:
3 providing a primary cooling airflow across the component with a primary fan,
4 the primary fan associated with an opening in the housing of the
5 information handling system;
6 directing the primary cooling airflow to the component with a shroud that
7 forms an air channel between the component and the housing opening;
8 and
9 providing a secondary cooling airflow at the component with a secondary fan,
10 the secondary fan coupled to an opening in the shroud proximate the
11 component.

1 11. The method of Claim 10 wherein providing a secondary cooling
2 airflow further comprises removably mounting the secondary fan to the shroud at the
3 shroud opening.

1 12. The method of Claim 10 further comprising:
2 removing the secondary fan from the shroud while the information handling
3 system is operating; and
4 replacing the secondary fan with another secondary fan by mounting the
5 replacement secondary fan to the shroud at the shroud opening while
6 the information handling system is operating.

1 13. The method of Claim 10 wherein the secondary airflow is substantially
2 perpendicular to the primary airflow.

1 14. The method of Claim 10 further comprising mounting a finger guard to
2 the shroud across the shroud opening.

1 15. The method of Claim 10 wherein the component comprises a central
2 processing unit.

1 16. The method of Claim 10 wherein the component comprises memory.

1 17. An airflow shroud for directing cooling air flow through an
2 information handling system having heat-producing components, the airflow shroud
3 comprising:
4 a housing forming a channel operable to direct a primary airflow between an
5 opening in the information handling system and a component of the
6 information handling system, the housing having an opening formed
7 proximate the component; and
8 a fan mounted on the housing at the opening, the fan aligned to direct a
9 secondary airflow through the opening at the component.

1 18. The airflow shroud of Claim 17 further comprising a finger guard
2 mounted on the housing across the opening between the fan and the component.

1 19. The airflow shroud of Claim 16 further comprising:
2 a fan mount integrated with the housing at the opening and operable to
3 releasably mount the fan to the housing.

1 20. The airflow shroud of Claim 19 wherein the fan mount comprises:
2 parallel rail disposed on opposing sides of the opening and aligned to engage a
3 fan slid between the rails; and
4 an electrical connector extending from the housing, the electrical connector
5 aligned to couple with a fan electrical connector and operable to
6 provide power to the fan.